



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the application of: Lonnie O. Ingram *et al.*

Serial No.: 10/027,250

Filed: April 7, 1997 (CPA2 filed May 15, 2000)  
(CPA2CN filed December 21, 2001)

For: *ETHANOL PRODUCTION FROM  
LIGNOCELLULOSE*

Attorney Docket No.: 49950-59787CON (formerly  
BCI-001CPA2CN)

Group Art Unit: 1651

Examiner: F. Prats

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

"Express Mail" mailing label number EV 342589688 US Date of Deposit November 26, 2003

I hereby certify that this paper or fee is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450

Peter C. Lauro, Esq.

Please Print Name of Person Signing

Peter C. Lauro  
Signature

**INFORMATION DISCLOSURE STATEMENT**

Dear Sir:

Applicants and their attorney have become aware of the following publications and patents which are related to the above-referenced application. In accordance with 37 CFR §1.97(c)(2), Applicants hereby submit these publications for the Examiner's consideration. These publications are cited on the enclosed PTO Form 1449.

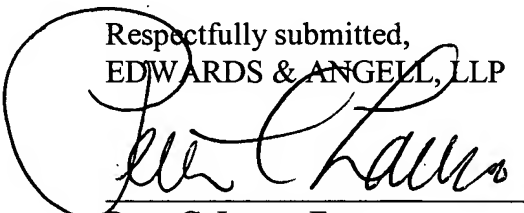
12/03/2003 HUON61 00000036 10027250 180.00 OP  
03 FC:1806

This application is a Rule 53(b) continuation application of application no. 08/883,435, filed April 7, 1997 (the parent application), now issued as U.S. Patent 6,333,181, and claims priority to the parent application under 35 U.S.C. §120. With the exception of references A1, A2, B8 and B11, all the references listed on the enclosed PTO Form 1449 were made of record in the parent application by means of information disclosure statements that complied with the requirements of 37 C.F.R. §1.98(a)-(c). In addition, references A1, A2, B8 and B11 were cited by the Examiner during prosecution of the parent application and likewise have been cited by the Examiner in the instant application. Therefore, in accordance with 37 C.F.R. §1.98(d), copies of the references listed on the enclosed PTO Form 1449 are not provided.

This statement is not to be interpreted as a representation that the cited publications are material, that an exhaustive search has been conducted, or that no other relevant information exists. Nor shall the citation of any publication herein be construed *per se* as a representation that such publication is prior art. Moreover, the Applicants understand that the Examiner will make an independent evaluation of the cited publications.

In accordance with 37 CFR §1.97(c)(2) and §1.17(p), Applicants enclose a check for \$180.00. Please charge any necessary additional fees to our Deposit Order Account No. 04-1105. For this purpose, a duplicate of this statement is also enclosed.

Respectfully submitted,  
EDWARDS & ANGELL, LLP



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Enclosures

Customer No.: 21874

APPLICANT FACSIMILE OF FORM PTO-1449  
REV 7-80U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

ATTY DOCKET NO

49950-59787CON (formerly  
BCI-001CPA2CN)

SERIAL NO.

10/027,250

LIST OF PUBLICATIONS CITED BY APPLICANT  
(Use several sheets if necessary)

APPLICANT

Lonnie O. Ingram et al.

FILING DATE

December 21, 2001

GROUP

1651

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	A1	US 5,424,202	06/95	Ingram et al.	435	161	
	A2	US 6,333,181	12/01	Ingram et al.	435	165	

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO

## OTHERS (including Author, Title, Date, Pertinent Pages, Etc.)

	B1	Brau, B. et al., (1986) "Cloning and Expression of the Structural Gene for Pyruvate Decarboxylase of <i>Zymomonas mobilis</i> in <i>Escherichia coli</i> ," Arch. Microbiol. 144:296-301.
	B2	Curry, C. et al, "Expression and Secretion of a <i>Cellulomonas fimi</i> Exoglucanase in <i>Saccharomyces cerevisiae</i> ", Appl. Environ. Microbiol., Feb. 1988, vol. 54, No. 2, pp. 476-484.
	B3	Dolganova, N. et al. "Ultrasonic Stimulation of <i>Chlorella</i> Population Growth" <i>Acta Ichthyologica et Piscatoria</i> 24(2):165-170 (1994);
	B2	Earnshaw, R.G. et al. "Understanding Physical Inactivation Processes: Combined Preservation Opportunities Using Heat, Ultrasound and Pressure" <i>International Journal of Food Microbiology</i> 28:197-219 (1995);
	B4	Grepinet, O. et al., (1988) "Purification of <i>Clostridium thermocellum</i> Xylanase 2 Expressed in <i>Escherichia coli</i> and Indietificationof the Corresponding Product in the Culture Medium of <i>C. thermocellum</i> ," J. Bacteriol. 170:4576-4581.
	B5	Ingram, L. O. et al., "Genetic engineering of ethanol production in <i>Escherichia coli</i> ," Appl. and Environ. Microbiol., 53:2420-2425 (1987).
	B6	Idrissi, F.Z. et al. "Effect of Ultrasound on Fungal Cells" <i>Cytobios</i> 88:119-122 (1996);
	B7	Joliff, G. et al., "Isolation, Crystallization and Properties of a New Cellulase of <i>Clostridium Thermocellum</i> Overproduced in <i>Escherichia coli</i> " Bio/Technology, vol. 4, Oct. 1986, pp. 896-890.
	B8	Nakao et al., <i>Ann. N.Y. Acad. Sci.</i> , 613 (Enzyme Engineering 10): 802-807 (1990)
	B9	Neale, A. D. et al. (1987) "Nucleotide Sequence of the Pyruvate Decarboxylase Gene from <i>Zymomonas mobilis</i> ," Nucleic Acids Res. 15:1753-1761.
	B10	Moncan, T. et al. "Use of Ultrasound to Increase Infection of McCoy Cell Monolayers by <i>Chlamydia trachomatis</i> Strain" <i>Biologicals</i> 19:53-55 (1991);
	B11	Rolz, <i>Biotech. Lett.</i> , 8(2): 131-136 (1986)
Examiner		Date Considered
*EXAMINER:		Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



Sheet 2 of 2

APPLICANT FACSIMILE OF FORM PTO-1449 REV 7-80		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY DOCKET NO <b>49950-59787CON (f rmerly BCI-001CPA2CN)</b>	SERIAL NO. <b>10/027,250</b>
LIST OF PUBLICATIONS CITED BY APPLICANT (Use several sheets if necessary)			APPLICANT <b>Lonnie O. Inoram et al.</b>	
			FILING DATE <b>December 21, 2001</b>	GROUP <b>1651</b>

## OTHERS (including Author, Title, Date, Pertinent Pages, Etc.) (Cont'd)

B12	Scherba, G. et al. "Quantitative Assessment of the Germicidal Efficacy of Ultrasonic Energy" <i>Applied and Environmental Microbiology</i> 57(7):2079-2084 (July 1991);	
B13	Thomas, B.J. et al. "Effect of Low-Dose Ultrasonic Treatment on Growth Rates and Biomass Yield of <i>Anabaena flos aquae</i> and <i>Selenastrum capricornutum</i> " <i>Biotechnology Techniques</i> 3(6):389-392 (1989);	
B14	Tiehm, A. et al. "The Use of Ultrasound to Accelerate the Anaerobic Digestion of Sewage Sludge" <i>War. Sci. Tech.</i> 36(11):121-128 (1997);	
B15	Tolan, J. S. and R. K. Finn (1987) "Fermentation of D-Xylose and L-Arabinos to Ethanol by <i>Erwinia chrysanthemi</i> ," <i>Appl. Environ. Microbiol.</i> 53:2033-2038.	
B16	Tolan, J. S. and R. K. Finn (1987) "Fermentation of D-Xylose to Ethanol by Genetically Modified <i>Klebsiella planticola</i> ," <i>Appl. Environ. Microbiol.</i> 53:2039-2044.	
B17	Velji, M.I. and Albright, L.J. "Microscopic Enumeration of Attached Marine Bacteria of Seawater, Marine Sediment, Fecal Matter, and Kelp Blade Samples Following Pyrophosphate and Ultrasound Treatments" <i>Can. J. Microbiol.</i> 32:121-126 (1986).	
Examiner		Date Considered
*EXAMINER:		Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.